

## Demonstration of Osmosis Through Living Membranes

- This lab activity will be demonstrated by the instructor since it requires the use of blood.
- A sample of blood will be obtained from the instructor by using an autolancet to prick the finger. Once blood is drawn, a drop of blood will be placed on three different glass slides.
- Next, one drop of distilled water will be added to one of the slides. One drop of 0.9% NaCl will be added to the second slide and lastly, one drop of 2% NaCl will be added to the third slide.
- A glass cover slip will be placed on each of the slides and then each one will be observed at 400 X - 1000x magnification.

### Pre-Lab Questions:

1. What do you expect to see?
2. Which of the above solutions is *hypotonic*? *Hypertonic*? *Isotonic*?
3. What is the driving force causing water to move across the cell membrane?
4. In the human body, what ensures that excessive water is not lost or gained by cells?